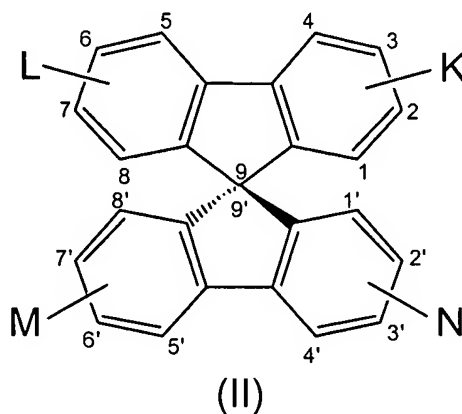


SPIROBIFLUORENE DERIVATIVES, THEIR PREPARATION AND USES THEREOF

Abstract

The invention concerns Spirobifluorene derivatives having the general formula
5 (II) and the corresponding, radical anions that can be represented via the
general formula (II):



- 10 in which K, L, M and N, the same or different from each other, are
independently: H or A-C=O, with the proviso that it is never K = L = M = N = H,
wherein A is an aromatic group, possibly substituted with at least an R' group
selected in the group of the substituents commonly used in organic chemistry
and/or at least one R group where R = aliphatic radical.
- 15 The invention also concerns the method for preparing said derivatives and
radical anions. Said compounds are applied in the field of components for
molecular electronics, in particular systems for electroluminescence, molecular-
based computational systems, OLEDs, molecular switching components,
components for non-linear optics, field-effect transistors and semiconductors
20 with negative differential resistance.